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7.6-10.487

CR-148793

9/15/76

Type II Progress Report

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Evaluation of Landsat-2 Data  
for  
Selected Hydrologic Applications

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(E76-10478) DEVELOPMENT OF A  
MULTI-DISCIPLINARY ERTS USER PROGRAM IN THE  
STATE OF OHIO Quarterly Progress Report  
(Ohio Dept. of Economic and Community) 5 p  
HC \$3.50

N76-31625

Unclas  
00478

CSCL 05B G3/43

Landsat Investigation No. 23170

Contract No. NAS-35991A

23170

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SIS/902.6

## Landsat-2 Investigation No. 23170

### A. Problems

1. Difficulty encountered in reading aircraft tapes (M<sup>2</sup>S) from P-3 flights taken over Luverne, Minnesota and Cranberry Lake test sites.
2. Imagery for 1976 American River basin had to be ordered retrospectively as delays in receipt of 70 mm positive transparencies currently run 2 to 3 months.
3. Computer tapes for American River basin had to be sent to Kansas City for duplication and were not received until 9/3/77.
4. Michael McMillan, associate, has resigned. This resignation will not enhance our ability to "catch up".

### B. Accomplishments

1. Obtained computer-enhanced (DMD) prints of M<sup>2</sup>S data from Luverne, unfortunately no ground truth is available for this overflight.
2. Snow mapping of American River basin completed for 1976--one of the lightest snow years since records have been kept. Results and comparisons are listed below:

<u>% Snow Cover</u>			
<u>Date</u>	<u>MSS 5</u>	<u>MSS 7</u>	<u>NOAA-4</u>
2/29/76	54	51	55
3/9/76	46	41	46
4/14/76	41	36	27 (4/19)
4/23/76	26	23	23
5/11/76	14	8	12
5/20/76	7	5	-
5/29/76	6	4	-

3. Computer-enhanced prints for several American River basin 1976 cases have been produced. Microfilm at full resolution being processed for density-brightness study.
4. Computer-enhanced prints for the Cranberry Lake test site have been produced, however, we have not been able to obtain any spectral data other than thermal IR.

### C. Significant Results

None

#### D. Publications

None

## E. Recommendations

None

### F. Fund Expended

\$7.6K remain of funds available for this investigation.

### G. Data Used

CCT's used to produce enhanced images and microfilm of American River basin. 70 mm positive transparencies used in mapping American River basin snow cover for 1976.

